

FIGURE 1

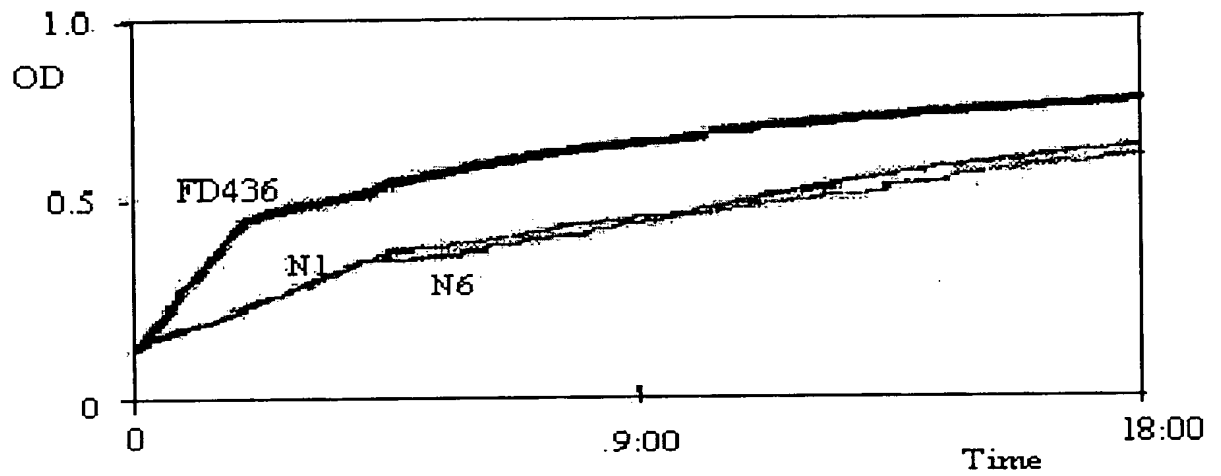


FIGURE 2

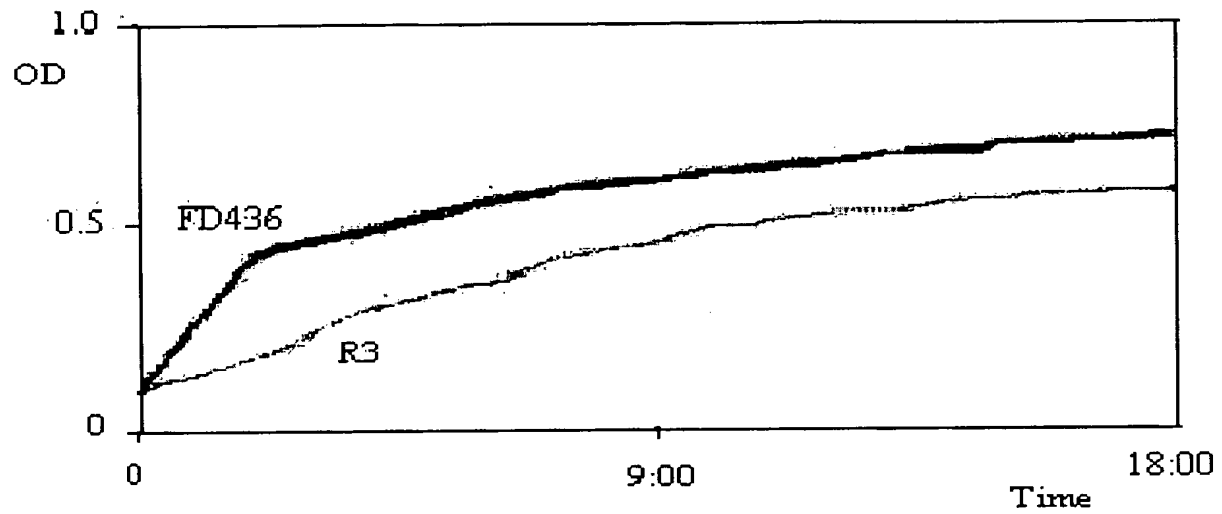


FIGURE 3

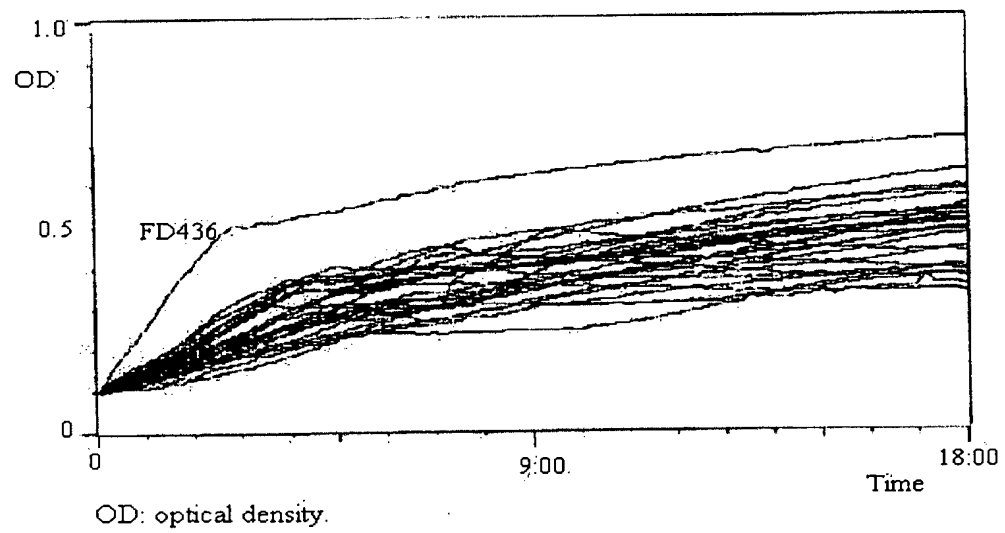
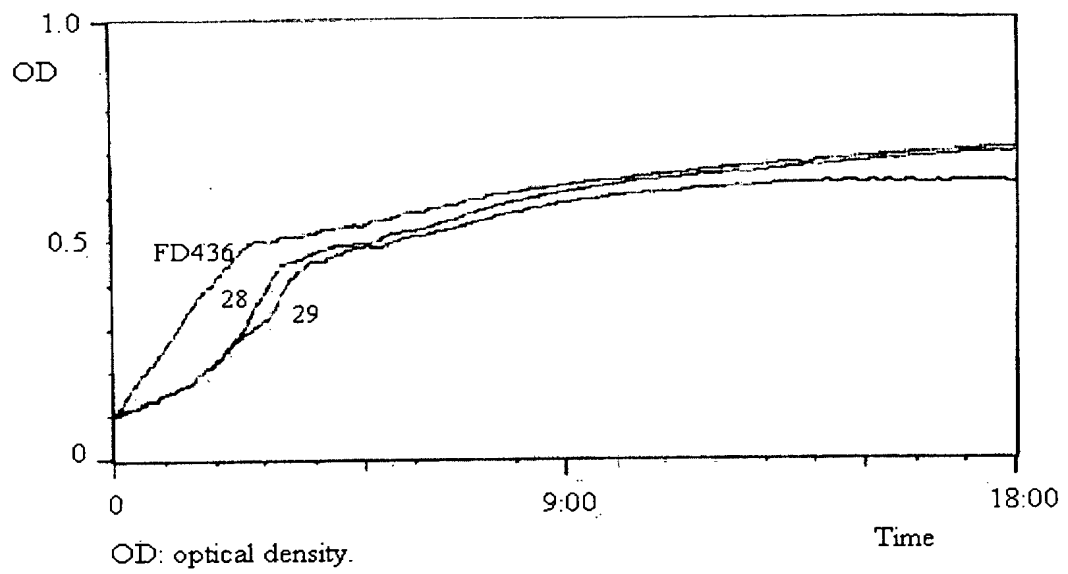


FIGURE 4

**FIGURE 5**

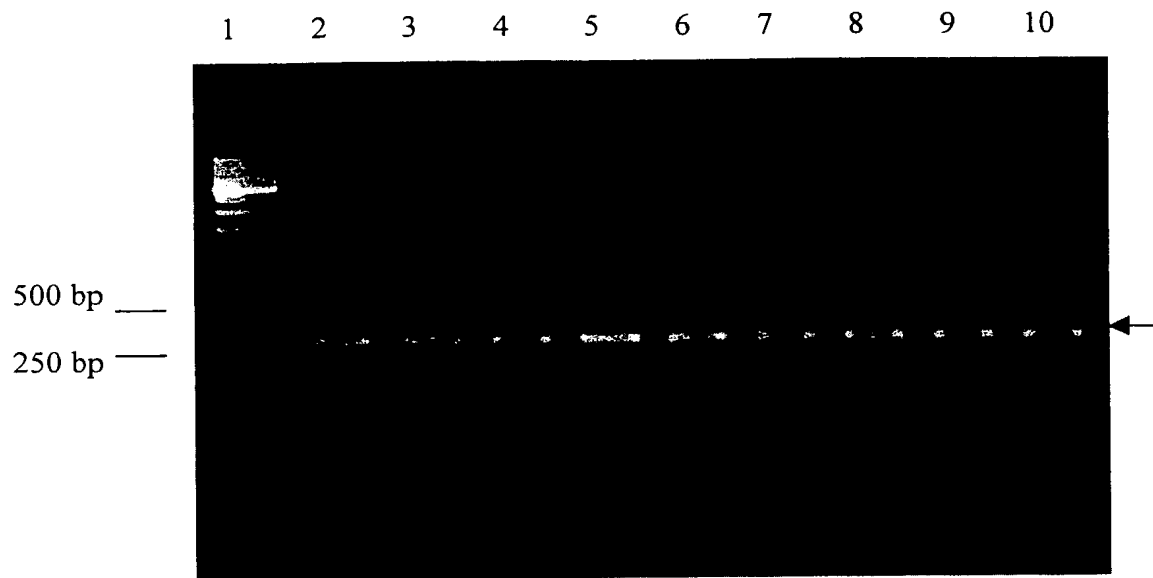
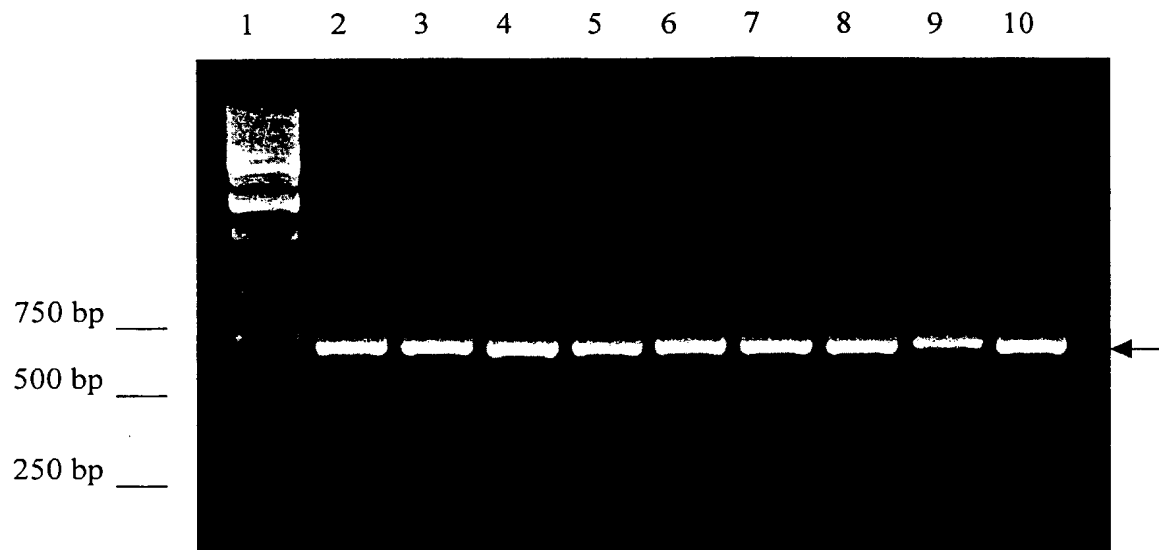


FIGURE 6

**FIGURE 7**

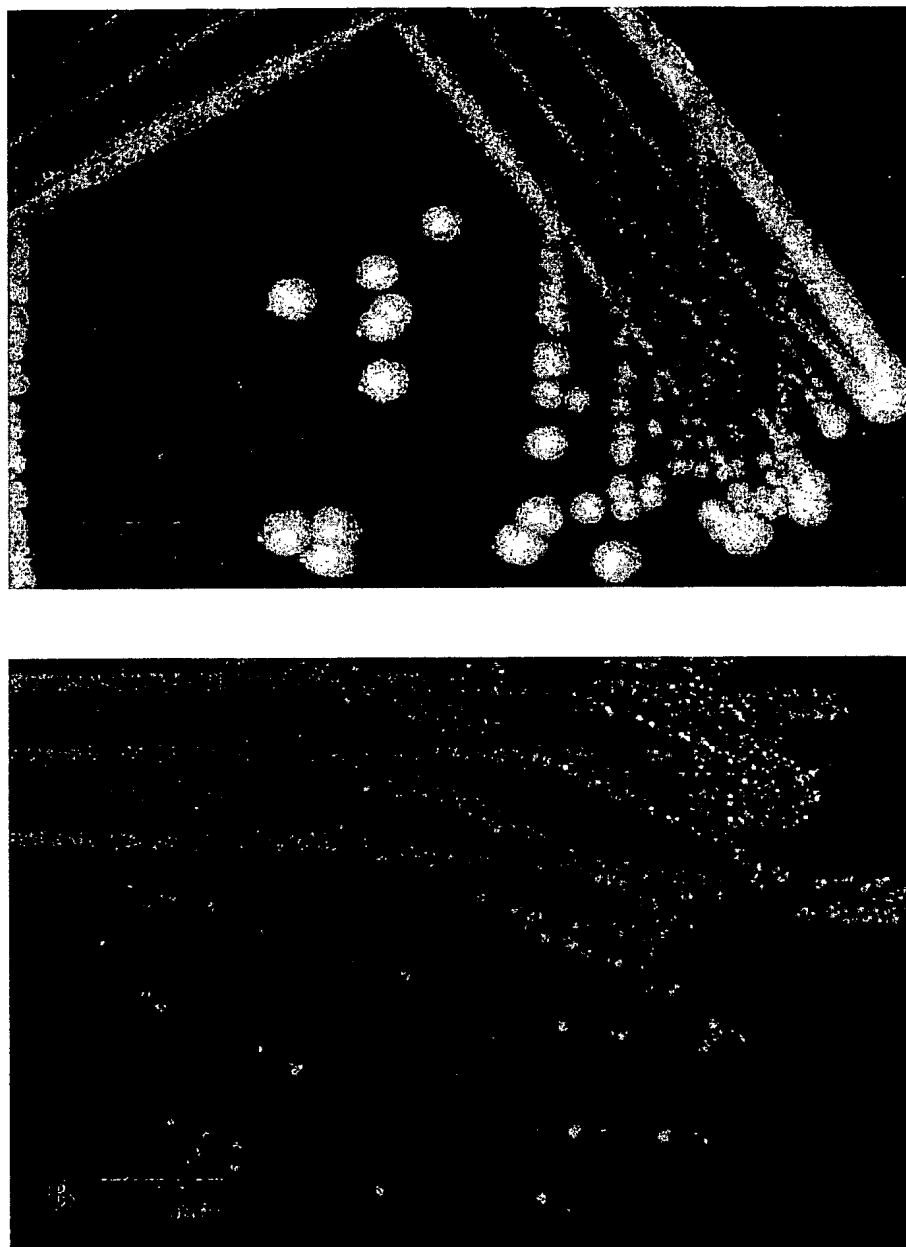
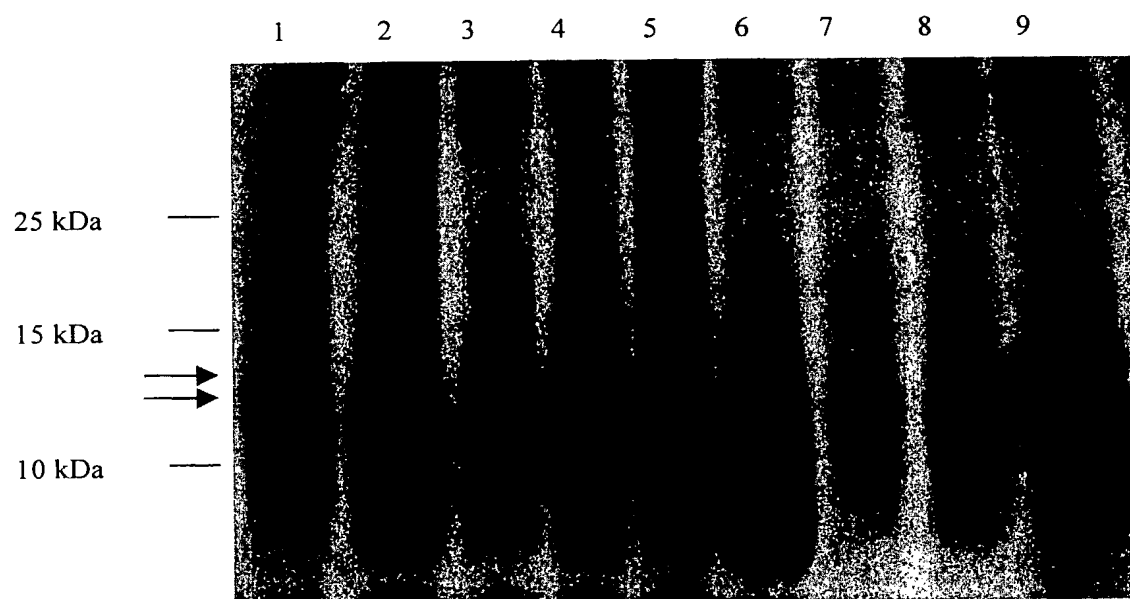
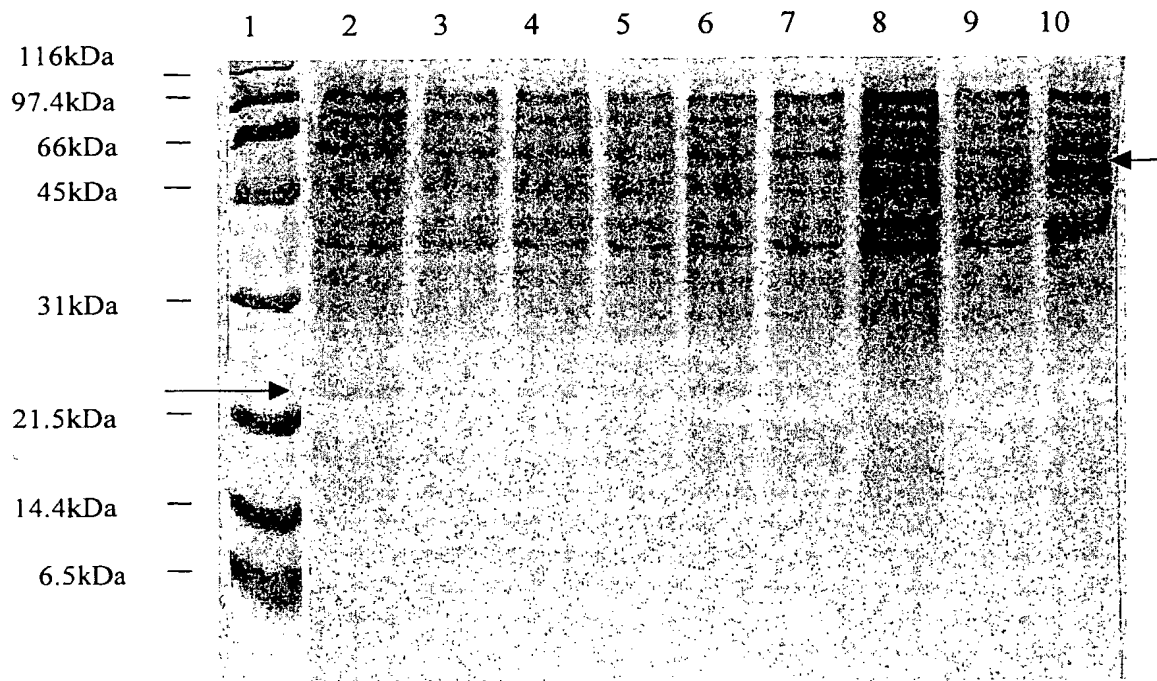


FIGURE 8

**FIGURE 9**

**FIGURE 10**

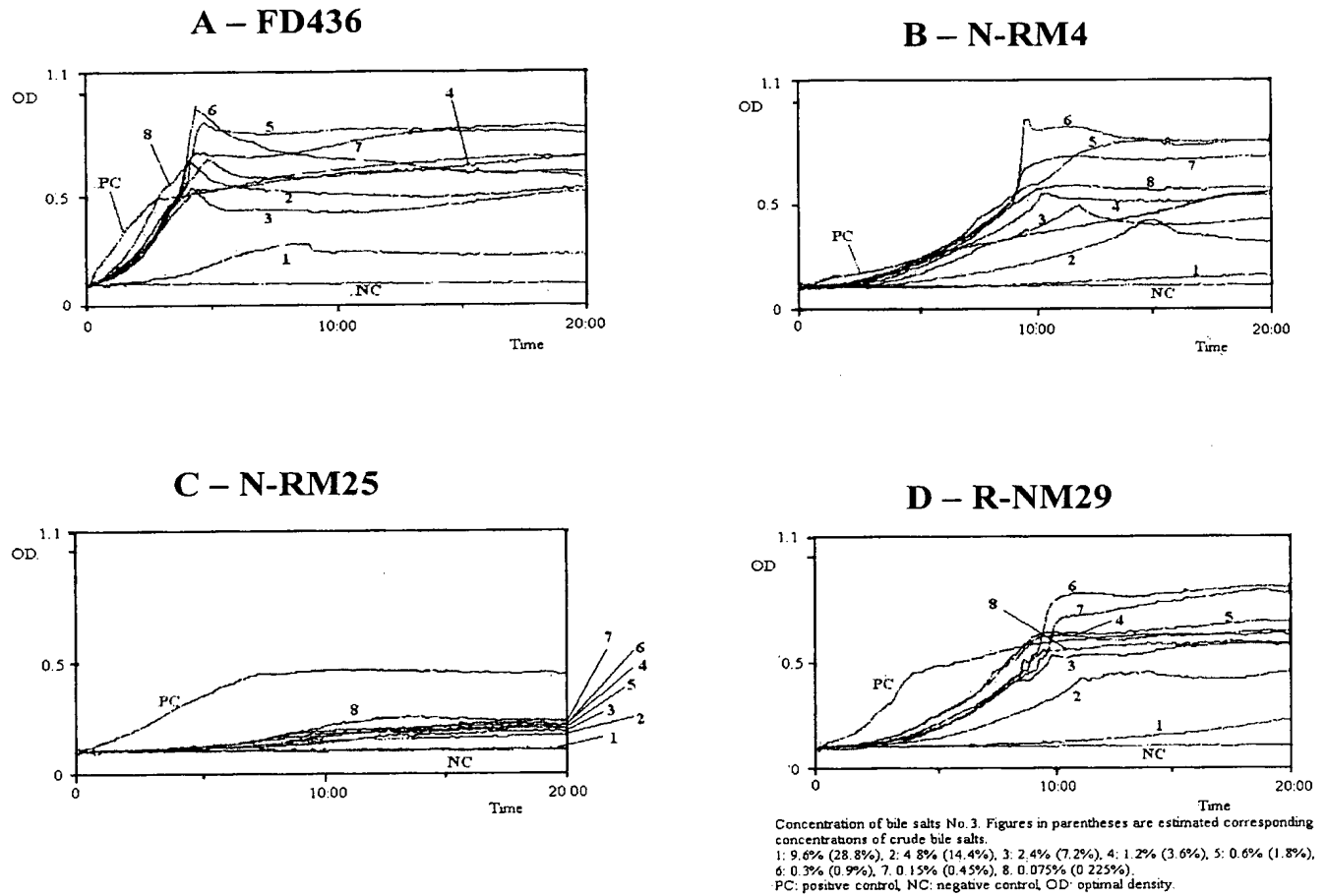
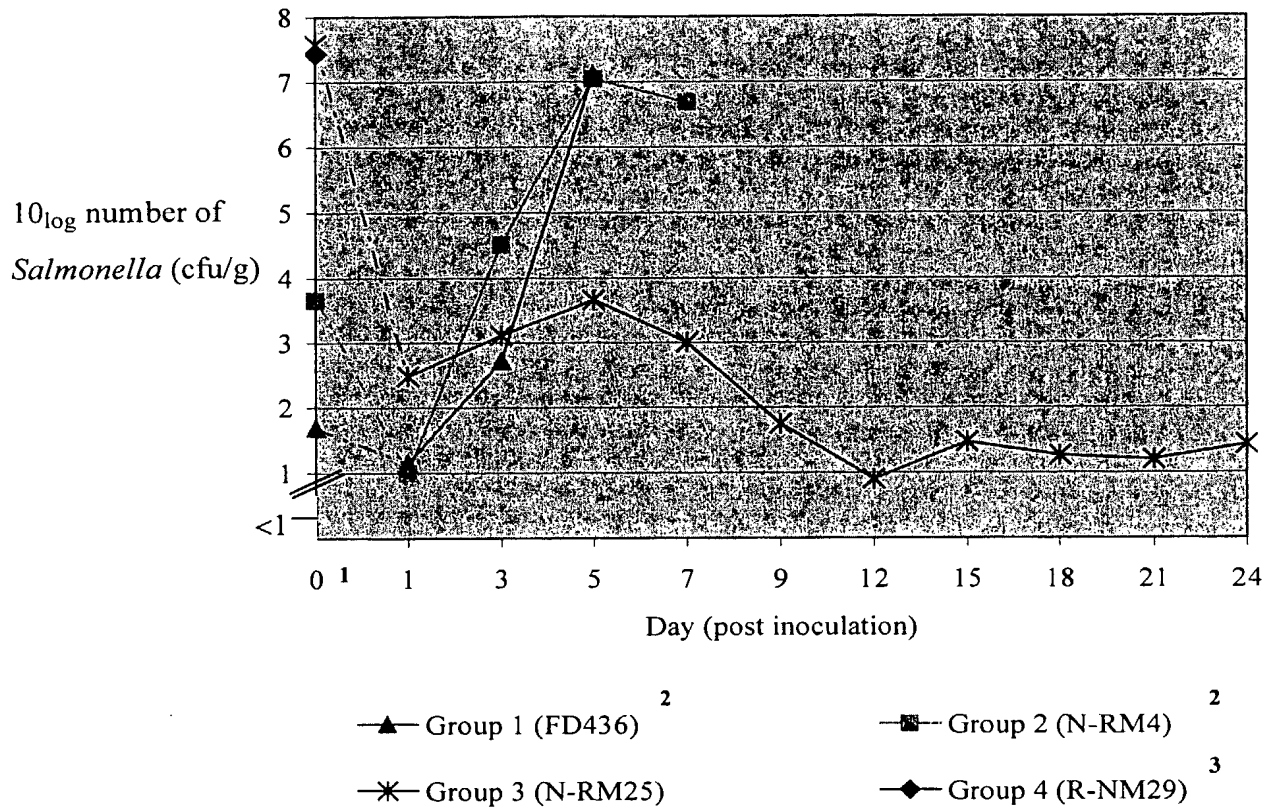


FIGURE 11



¹: The numbers of *Salmonella* on Day 0 indicate the infectious doses of FD436, N-RM4, N-RM25 and R-NM29 inoculated to mice in each group. They do not represent the number of bacteria in the liver plus spleen.

²: All mice in Groups 1 and 2 were euthanased or died by Day 6 and Day 8 post-inoculation, respectively.

³: No *Salmonella* were isolated from the livers and spleens of mice in Group 4 throughout the nine-day observation period.

FIGURE 12

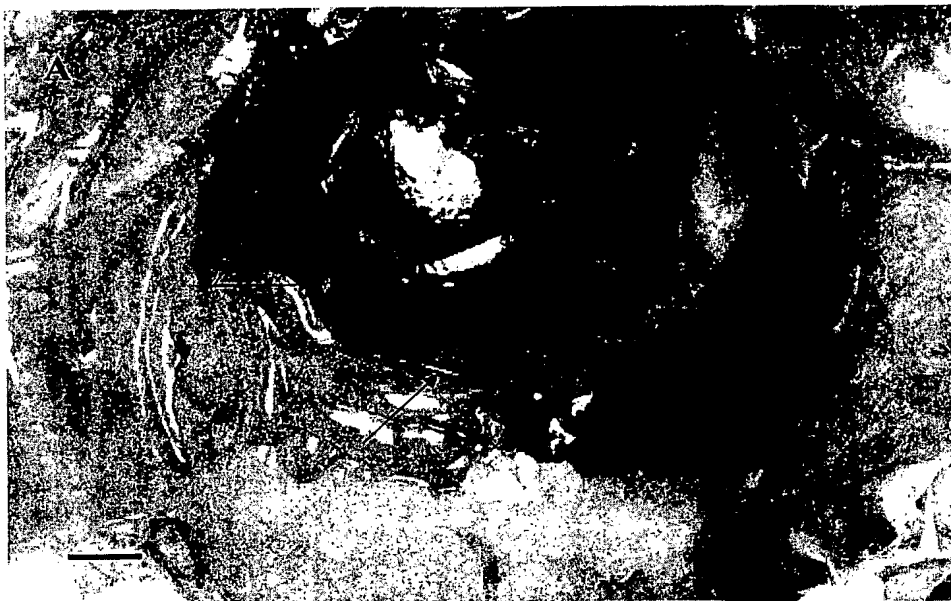


FIGURE 13



FIGURE 14

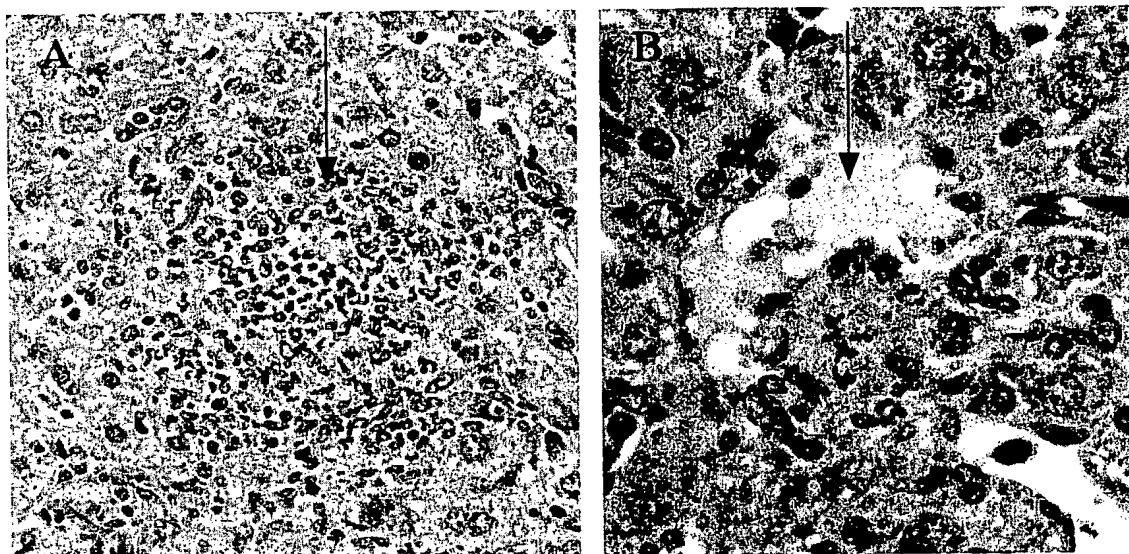
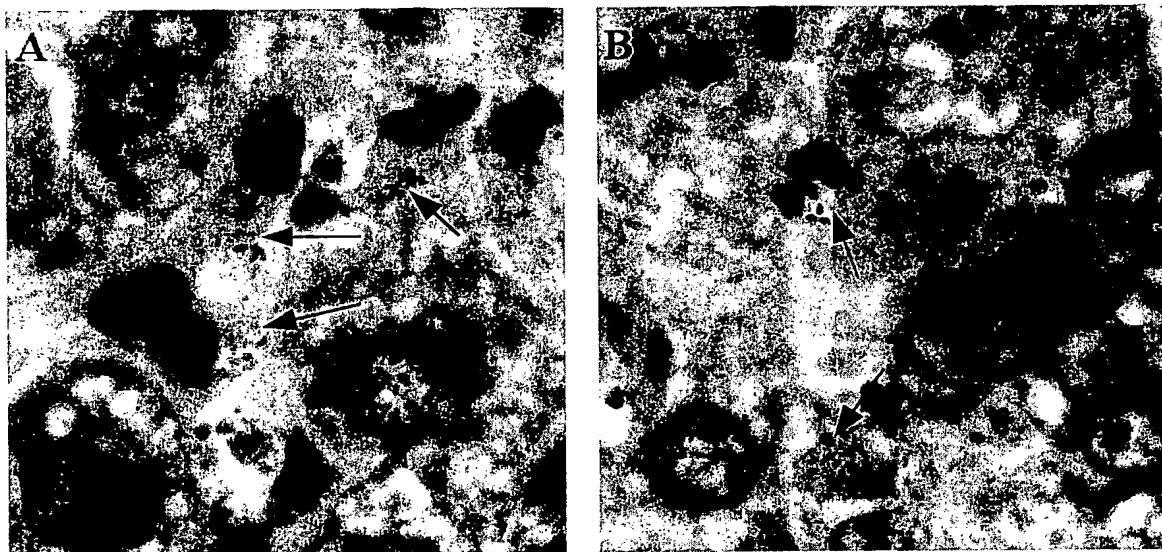


FIGURE 15

**FIGURE 16**

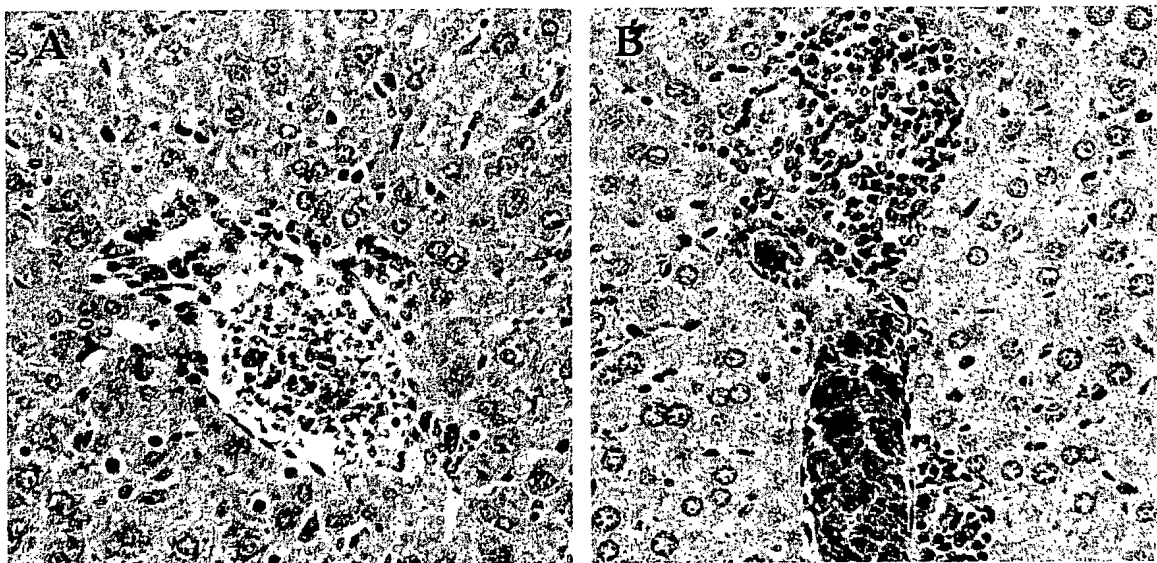


FIGURE 17

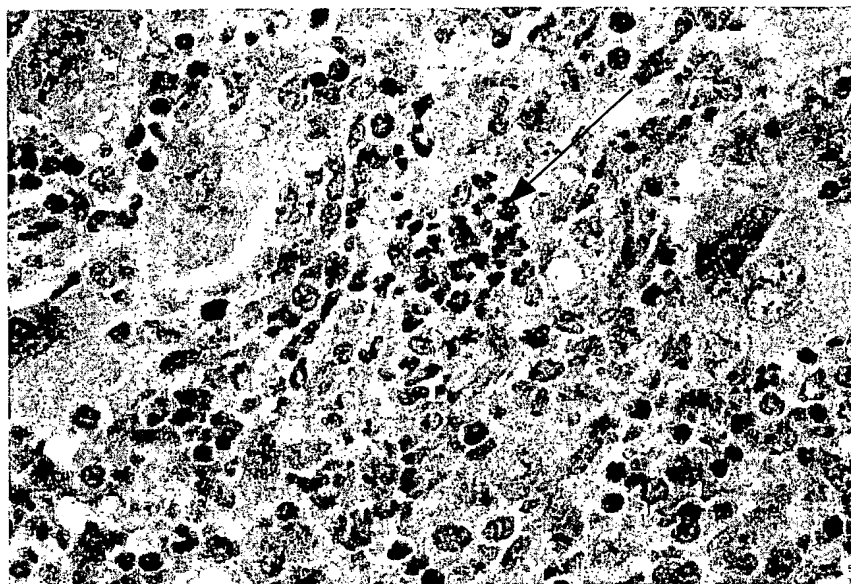


FIGURE 18

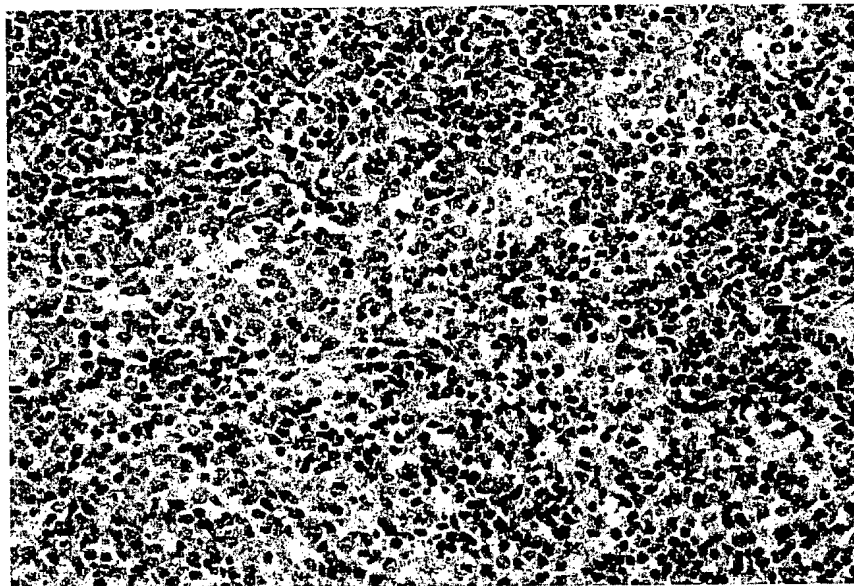


FIGURE 19

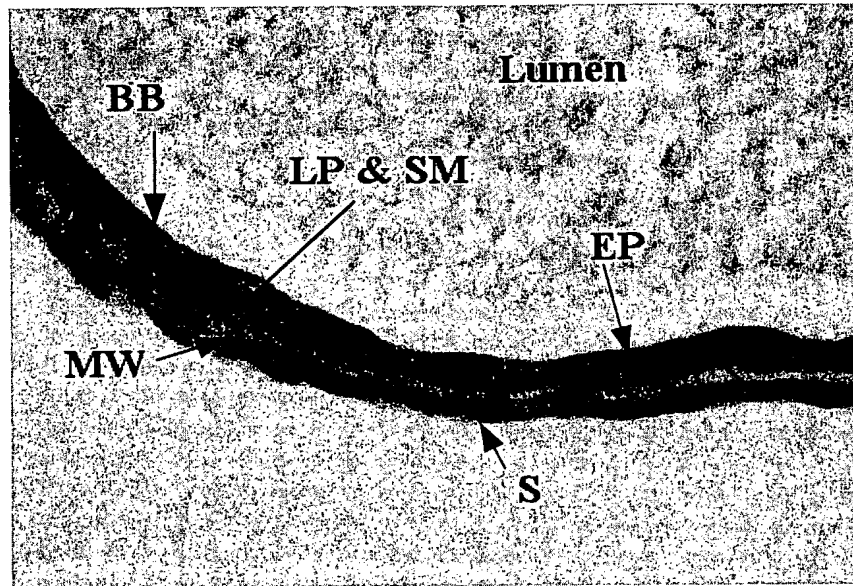


FIGURE 20

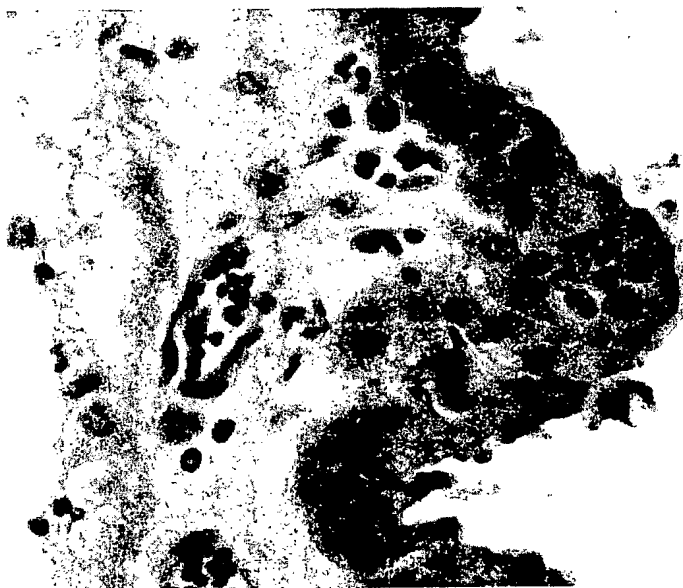


FIGURE 21

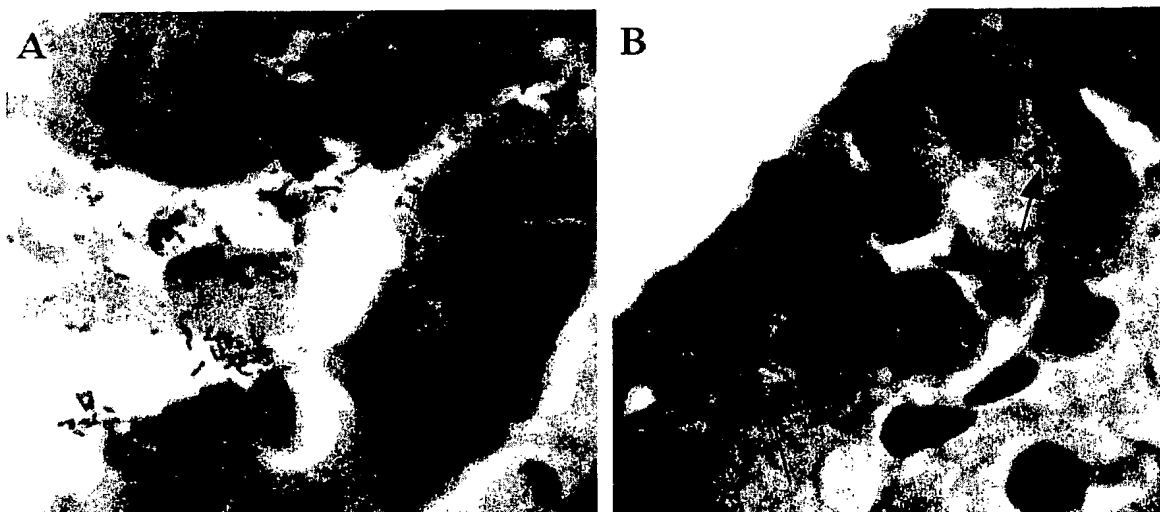


FIGURE 22

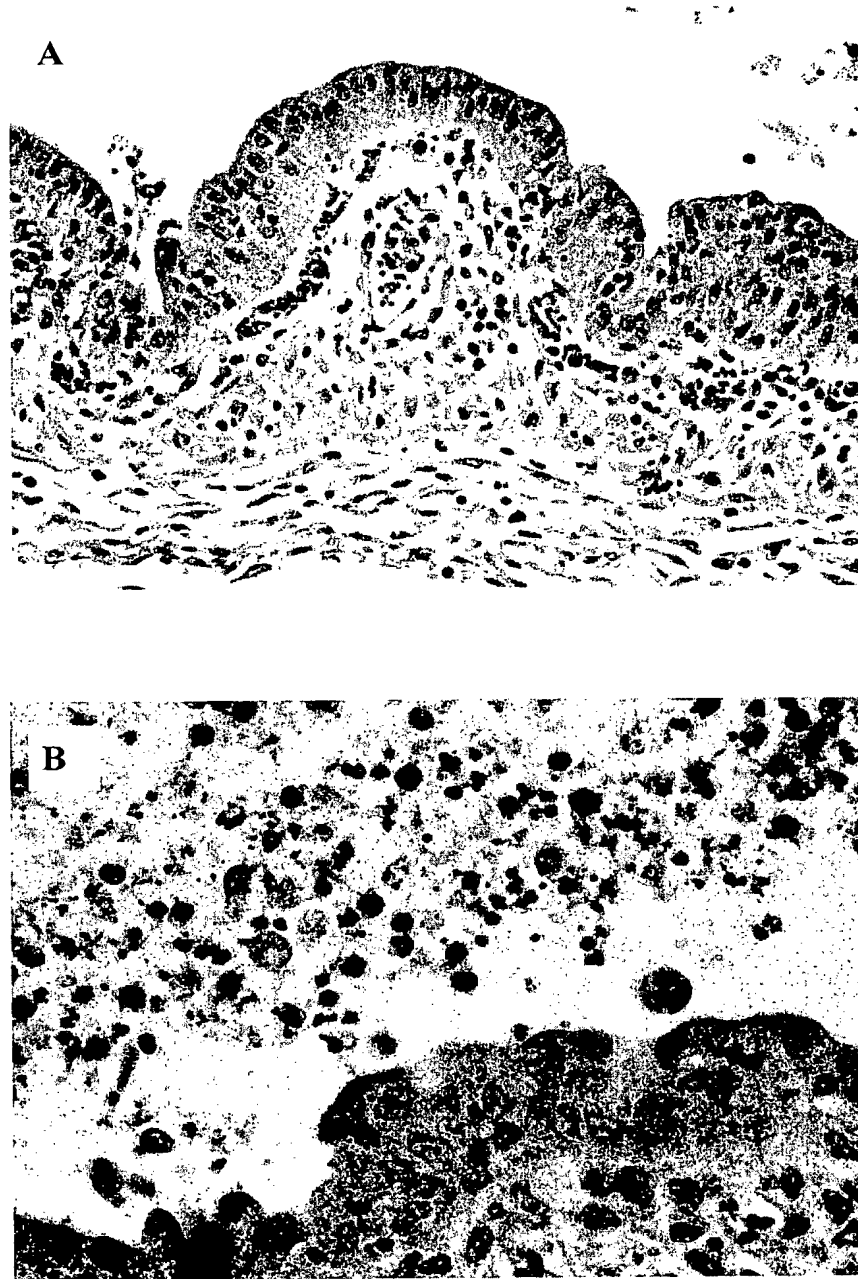


FIGURE 23

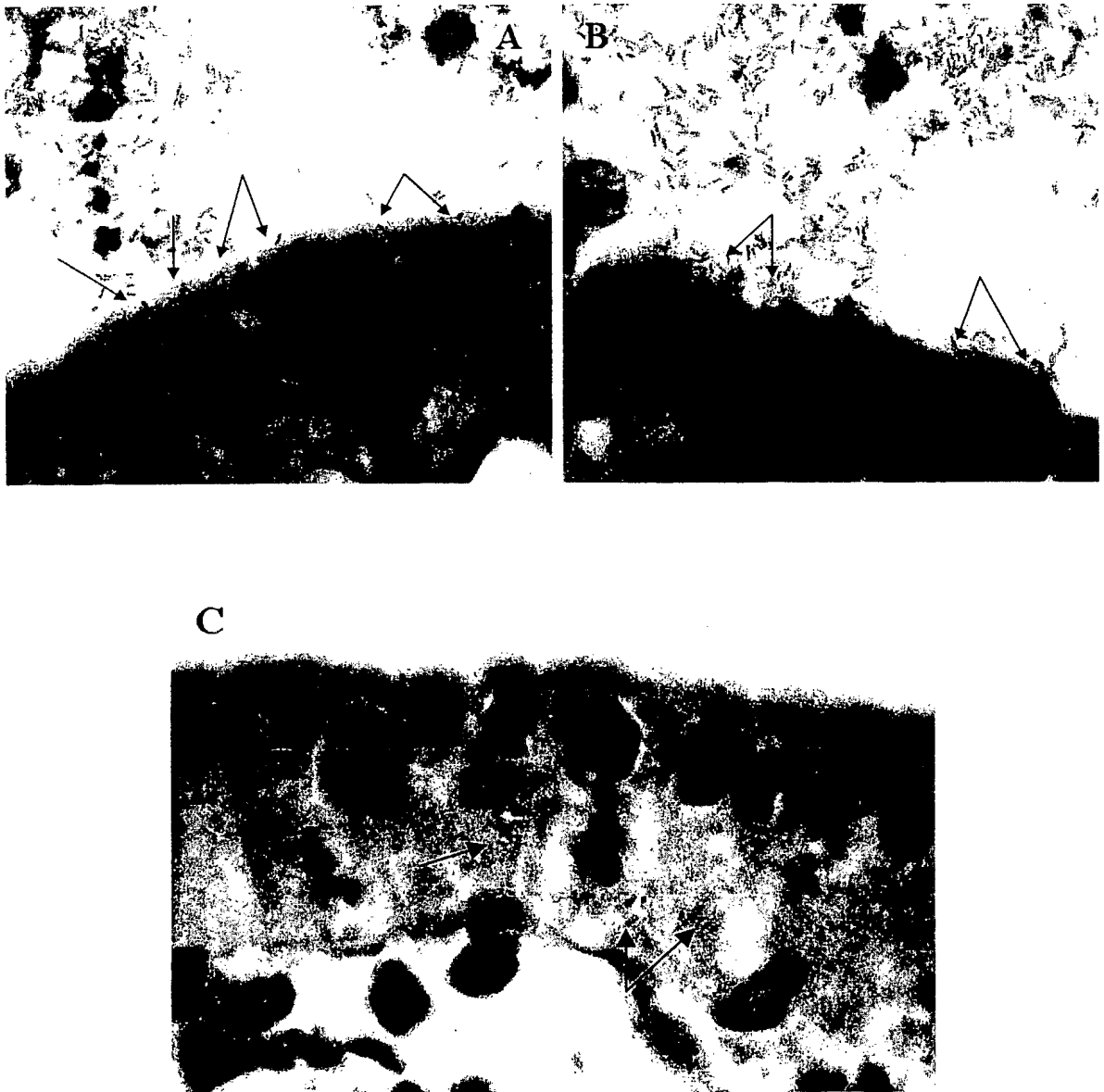


FIGURE 24

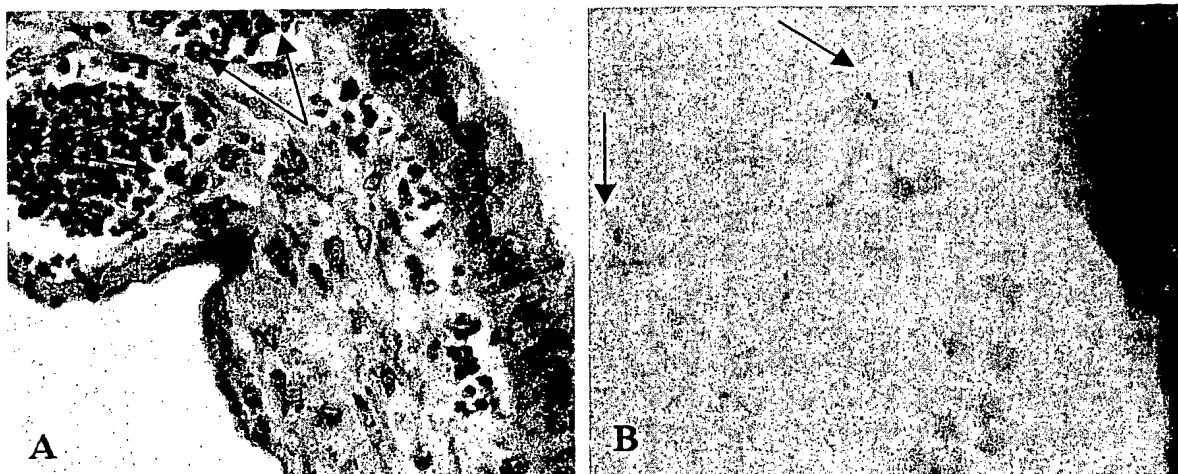
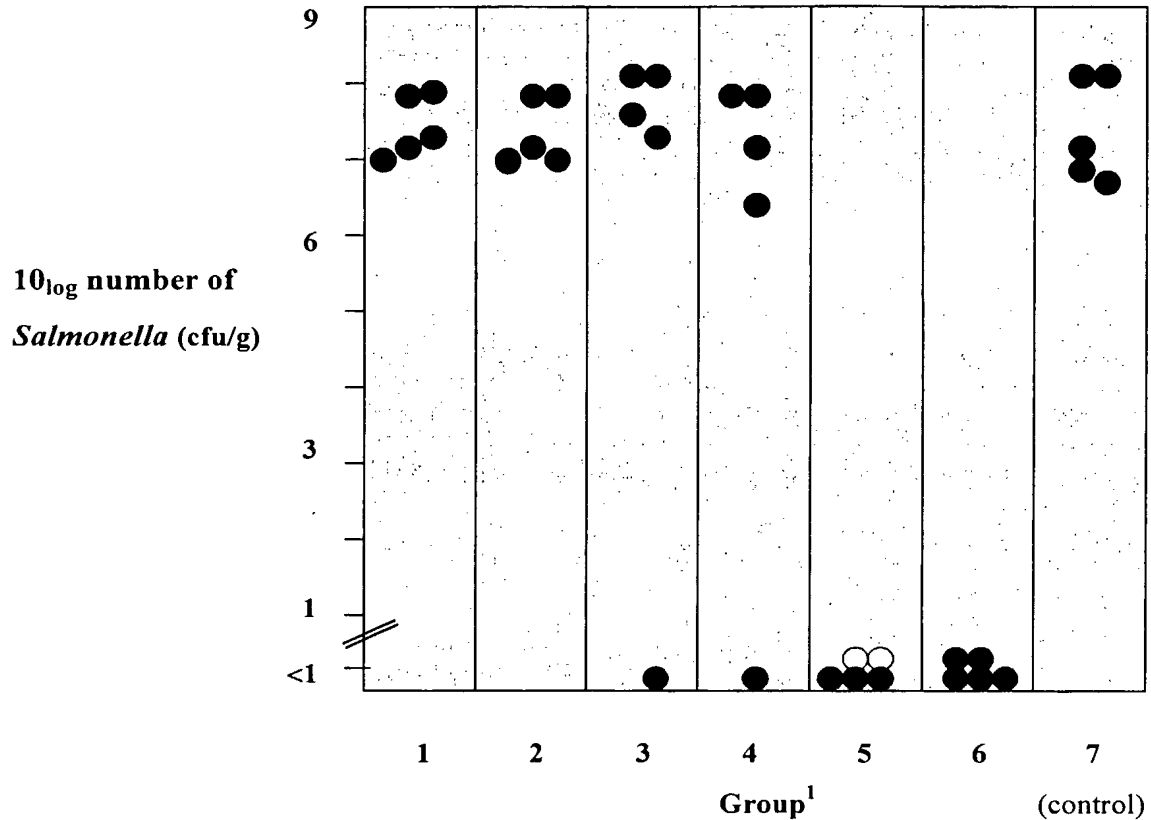


FIGURE 25



FIGURE 26



¹: Vaccination: Group 1 – single low-dose, 2 – double low-dose, 3 – single medium-dose, 4 – double medium-dose, 5 – single high-dose, 6 – double high-dose.

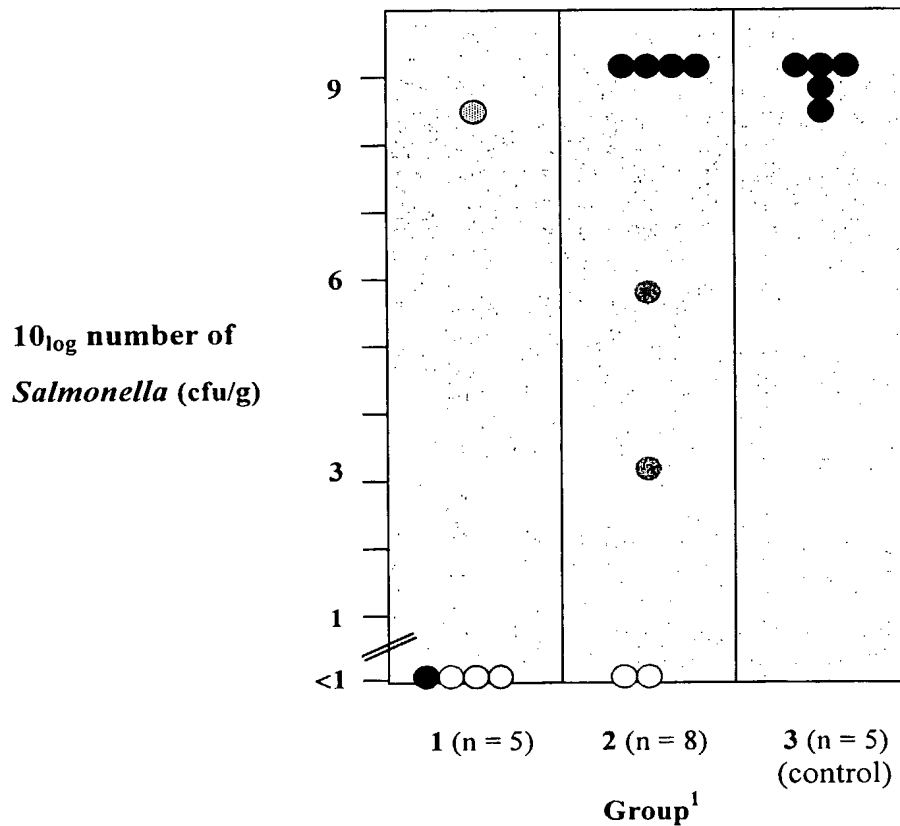
Refer to Table 8.2 for detailed vaccination and challenge infection information.

● : Mice euthanased due to clinical signs of salmonellosis and from which the challenge strain was isolated using quantitative culture.

○ : Mice that survived challenge infection and from which the challenge strain was isolated by enrichment only.

● : Mice that survived challenge infection and from which *Salmonella* was not isolated.

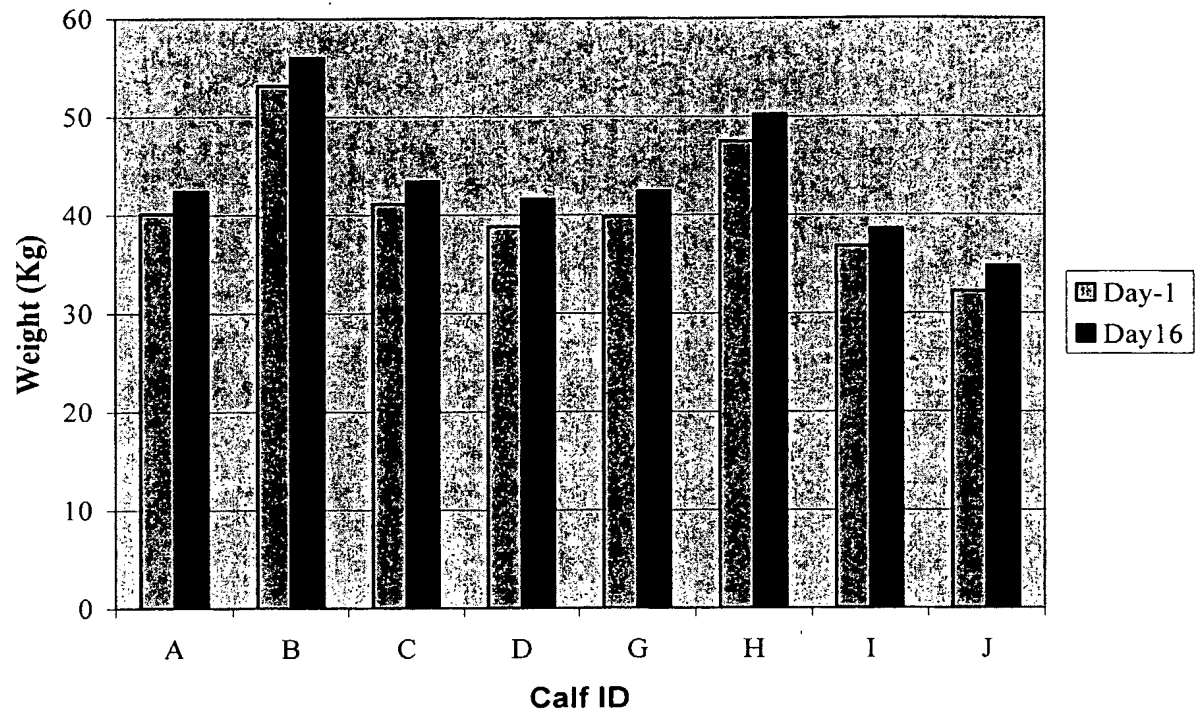
FIGURE 27



¹: Vaccination: Group 1 - N-RM4, 2 - R-NM29. Refer to Table 8.3 for detailed vaccination and challenge infection information. n: number of tested mice.

- ☒: Mice that died before challenge infection and from which the corresponding vaccine strains were isolated using quantitative culture.
- ☐: Mice that survived challenge infection and from which the corresponding vaccine strains were isolated by enrichment only.
- ☒: Mice euthanased due to critical illness and from which the challenge strain was isolated using quantitative culture.
- ☒: Mice that survived challenge infection and from which the challenge strain was isolated using quantitative culture.
- ☐: Mice that survived challenge infection and from which the challenge strain was isolated by enrichment only.
- ☒: Mice that survived challenge infection and from which *Salmonella* was not isolated.

FIGURE 28

**FIGURE 29**

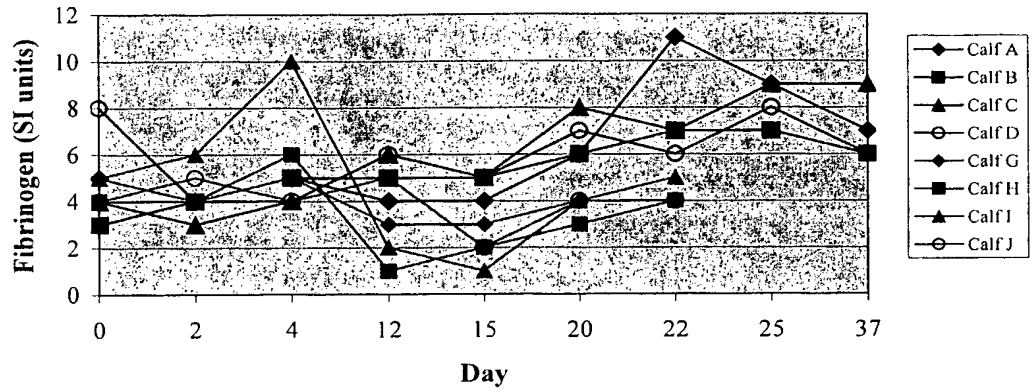
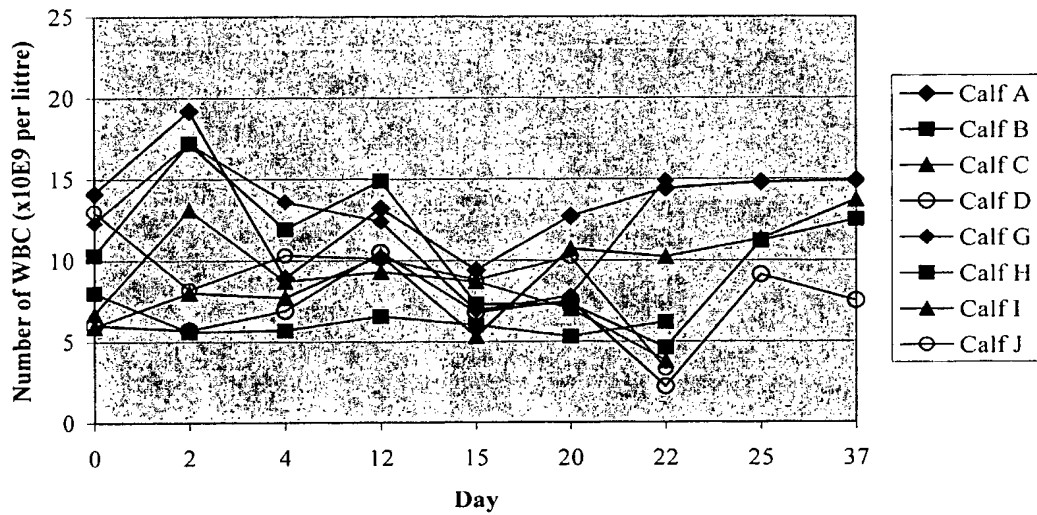
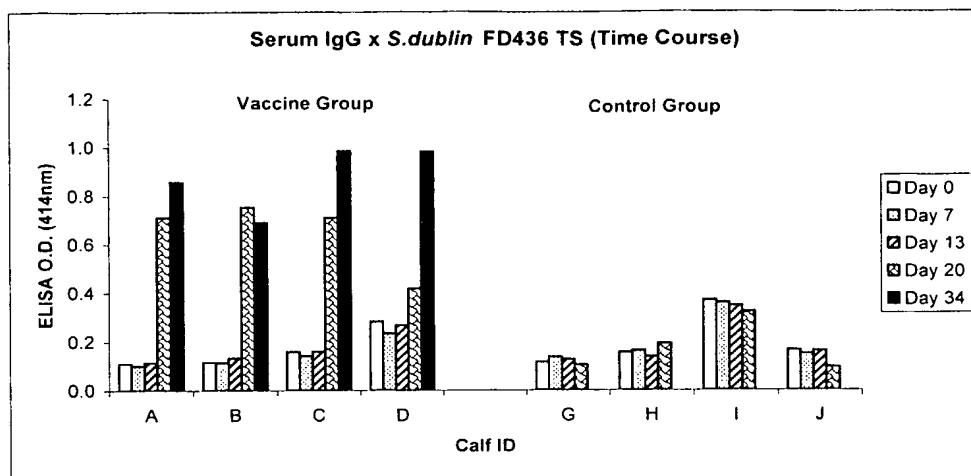


FIGURE 30

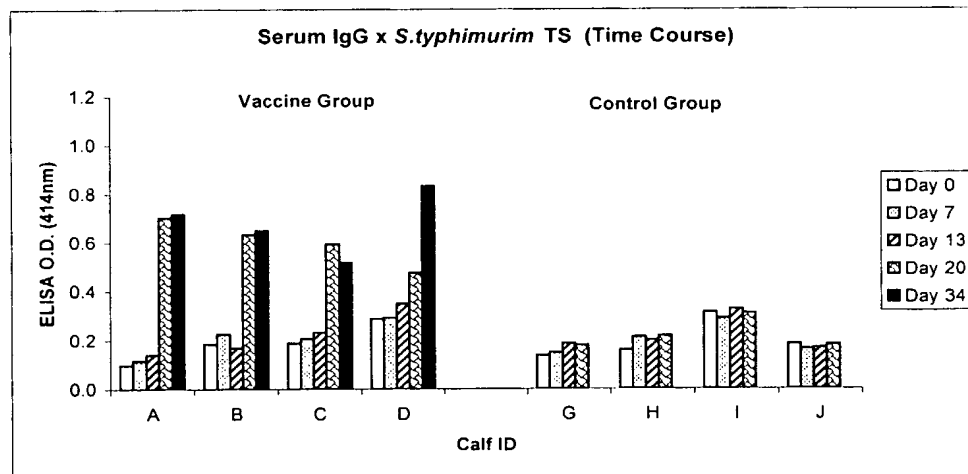


FUGURE 31



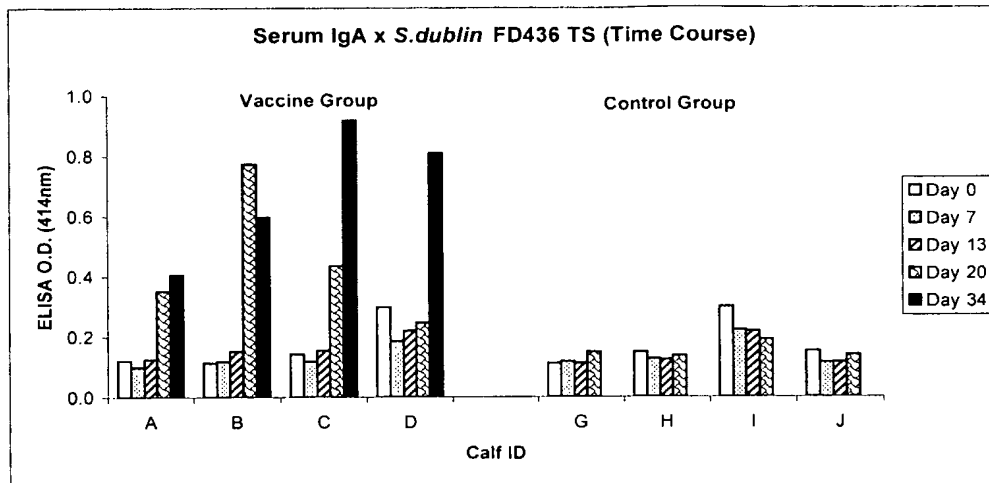
Day 0: 1st vaccination, Day 13: booster vaccination, Day 20: challenge infection with FD436.

FIGURE 32



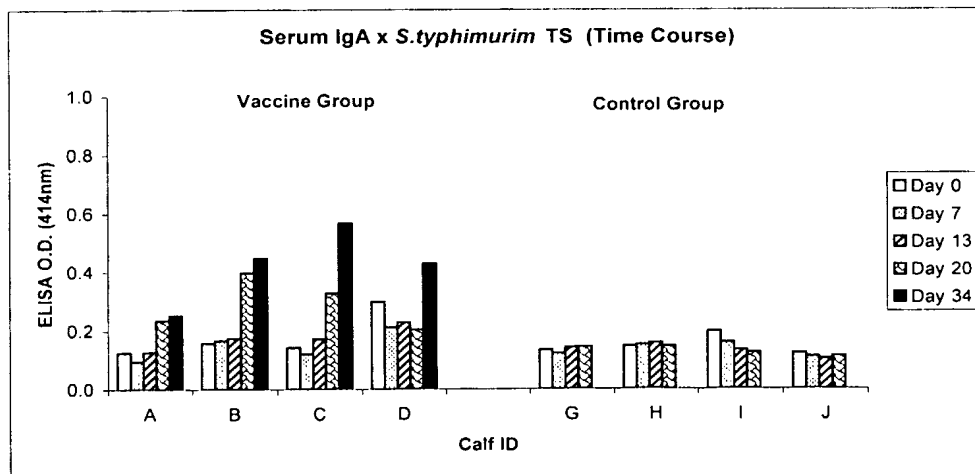
Day 0: 1st vaccination, Day 13: booster vaccination, Day 20: challenge infection with FD436.

FIGURE 33



Day 0: 1st vaccination, Day 13: booster vaccination, Day 20: challenge infection with FD436.

FIGURE 34



Day 0: 1st vaccination, Day 13: booster vaccination, Day 20: challenge infection with FD436.

FIGURE 35